GRAPHTEC

621249060

Craft ROBO
CC100

Quick Application Guide

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To Ensure Safe and Correct Use

- **To ensure safe and correct use of your Craft ROBO, read this Guide thoroughly before use.**
- **After having read this Guide, keep it in a handy location for quick reference as needed.**
- **Do not permit small children to touch the Craft ROBO.**
- **The following describes important points for safe operation. Please be sure to observe them strictly.**

Conventions Used in This Guide

To promote safe and accurate use of the Craft ROBO as well as to prevent human injury and property damage, safety precautions provided in this guide are ranked into the three categories described below. Be sure you understand the difference between each of the categories.

DANGER : This category provides information that, if ignored, is highly likely to cause fatal or serious injury to the operator.

WARNING : This category provides information that, if ignored, is likely to cause fatal or serious injury to the operator.

CAUTION : This category provides information that, if ignored, could cause injury to the operator or physical damage to the Craft ROBO.

Description of Safety Symbols

The ⚠ symbol indicates information that requires careful attention (which includes warnings). The point requiring attention is described by an illustration or text within or next to the ⚠ symbol.

The ⃠ symbol indicates action that is prohibited. Such prohibited action is described by an illustration or text within or next to the ⃠ symbol.

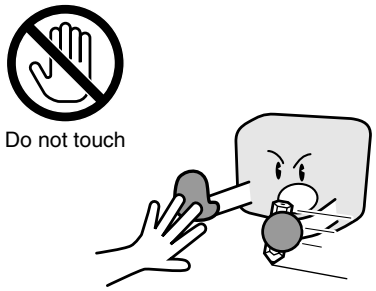
The ❗ symbol indicates action that must be performed. Such imperative action is described by an illustration or text within or next to the ❗ symbol.

Safety Precautions

⚠WARNING

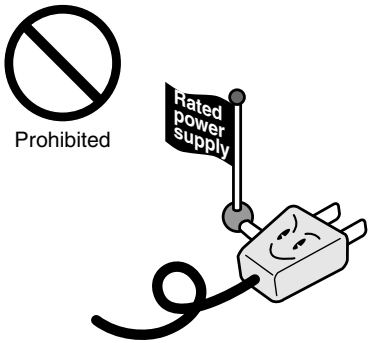
During a cutting or plotting operation, do not touch the writing panel or moving parts such as the carriage.

- Such action may cause human injury.



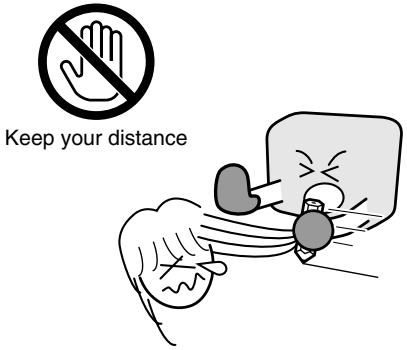
Do not connect the Craft ROBO to a non-rated power supply.

- Use of a different supply voltage may result in electrical shock or a fire hazard due to current leakage.



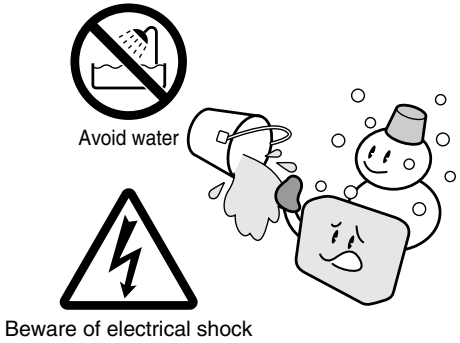
Keep your hands, hair, etc. away from the writing panel and moving parts such as the carriage even if the Craft ROBO is stopped, because it may suddenly start moving when data is received.

- Such action may cause human injury.



Do not use the Craft ROBO in a location where it will be exposed to water, rain or snow.

- Such location may cause electrical shock or a fire hazard due to current leakage.



Do not disassemble, repair, or remodel the Craft ROBO.

- Such action may cause electrical shock or a fire hazard due to current leakage.
- Contact with the high-voltage parts within the Craft ROBO may cause electrical shock.
- If the Craft ROBO requires repair, contact your sales representative or nearest Graphtec vendor.

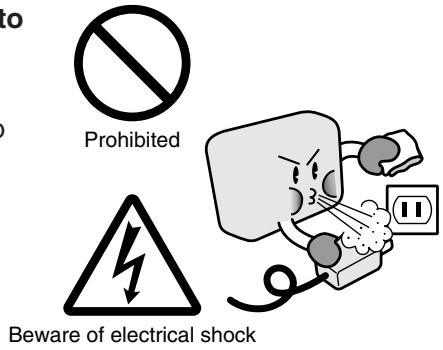
If the Craft ROBO generates smoke, is too hot, emits a strange odor, or otherwise functions abnormally, do not continue using it. Unplug the AC adapter's power cord from the electrical socket.

- Use of the Craft ROBO in such status may result in a fire hazard or electrical shock.
- After confirming that smoke is no longer being generated, contact your sales representative or nearest Graphtec vendor to request repair.
- Never try to perform repair yourself. Repair work by inexperienced personnel is extremely dangerous.

⚠WARNING

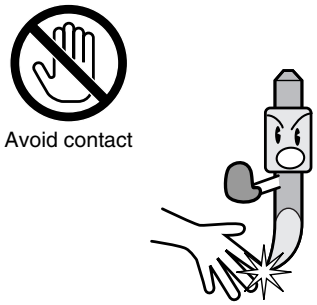
Do not allow dust or metallic matter to adhere to the power plug.

- A dirty power plug may result in electrical shock or a fire hazard due to current leakage.



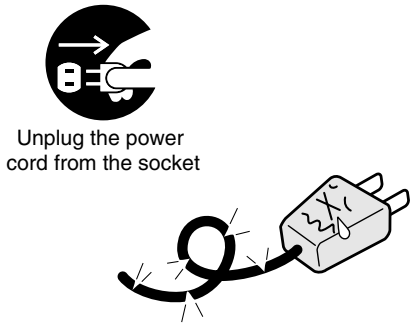
Be careful when handling the cutter blade.

- Touching the blade with your bare hand may cause injury.
- During a cutting operation, keep away from the cutter blade.



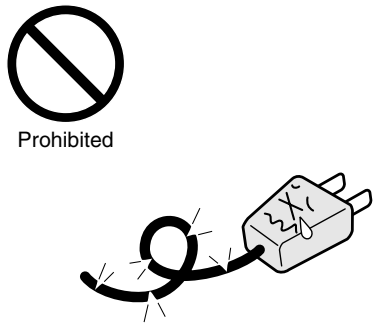
Do not use the power cord or AC adapter if it is damaged.

- Use of a damaged power cord or AC adapter may result in electrical shock or a fire hazard due to current leakage.
- Replace the power cord or AC adapter with a new one.



Only use the AC adapter that was supplied as a standard accessory.

- Use of any other AC adapter may cause malfunctions or result in electrical shock or a fire hazard.



Safety Precautions

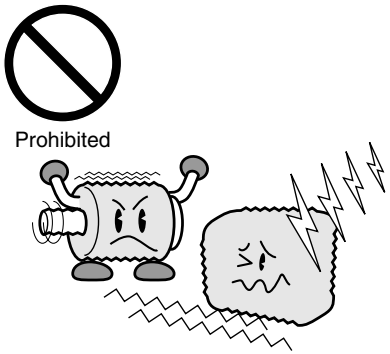
⚠CAUTION

Do not use or store the Craft ROBO in a location exposed to direct sunlight or the direct draft of an air conditioner or heater.

- Such location may impair the performance of the Craft ROBO.

Do not use the Craft ROBO in a location subject to excessive mechanical vibration or electrical noise.

- Such location may impair the performance of the Craft ROBO.



Do not use the Craft ROBO in an excessively dusty or humid location.

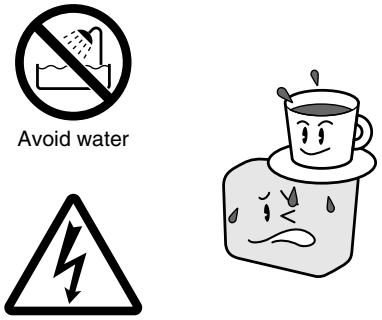
- Such location may impair the performance of the Craft ROBO.

When disconnecting the power cord or an interface cable, do not pull on the cord/cable.

- Such action will damage the cord/cable, resulting in a fire hazard or electrical shock. Be sure to hold the power cord's plug or the interface cable's connector.

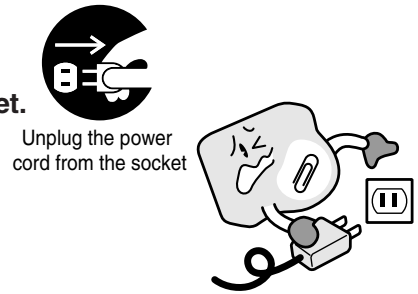
Do not place any receptacle containing water or other fluid on top of the Craft ROBO.

- Fluid falling inside the Craft ROBO may cause electrical shock or a fire hazard due to current leakage.



If water or foreign matter enters inside the Craft ROBO, do not continue using it. Turn off its power and unplug its power cord from the electrical socket.

- Use of the Craft ROBO in such status may result in electrical shock or a fire hazard due to current leakage.
- Contact your sales representative or nearest Graphtec vendor to request repair.



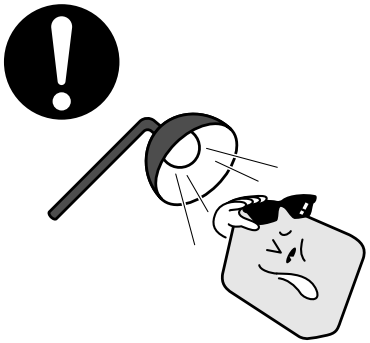
⚠CAUTION

Do not attempt to lubricate the Craft ROBO's mechanisms.

- Such action may cause it to break down.

When using indoor lighting such as a fluorescent lamp or an electrical lamp, provide a distance of at least one meter between the Craft ROBO and the light source.

- Closer proximity of such a light source may cause the sensors to malfunction.

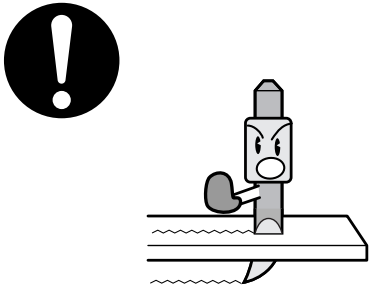


Do not clean the Craft ROBO using a volatile solvent such as thinner or benzine.

- Such action may impair its performance.

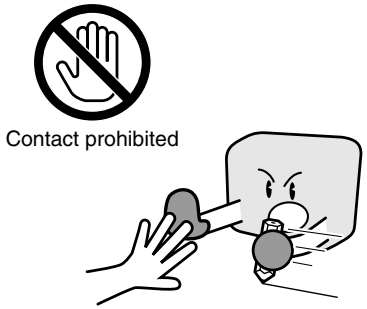
When using the cutter, make sure that the correct blade adjustment cap for the selected Media Type is attached.

- An overly extended blade will damage the cutting mat and adversely affect the cutting quality.



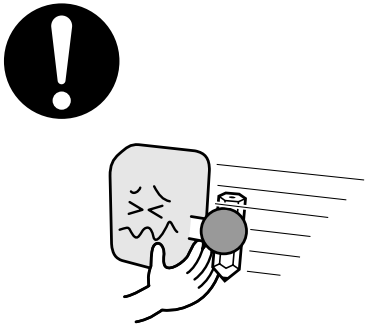
During cutting or plotting, provide enough space around the Craft ROBO so that the loaded sheet will not hit any objects in its vicinity.

- Such contact may cause cutting or plotting to go out of alignment.



Move the pen carriage slowly when moving it manually in order to load the sheet for cutting or for other reasons.

- Moving it quickly may damage the Craft ROBO.



Media Trial Kit User Guide

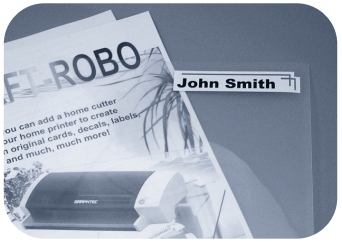
Make Something Now!!

By using the Media Trial Kit, you will be able to learn the basic operations in a short time.

Trial Kit Menu

Three menu items are provided for different Media Trial Kit applications. Select the menu item that best suits your purpose.

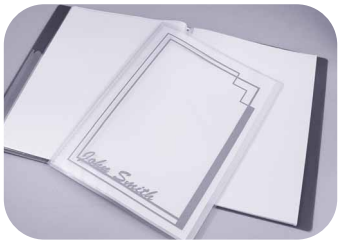
Menu 1 To Make a Name Label P.9



Create a name label with a photo

Examples

Menu 2 To Cut a Vinyl Sticker P.15



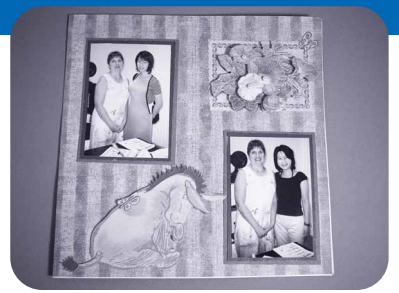
Create a name or a logo

Examples

Menu 3 To Make a Pop-up Greeting Card P.19

Create an announcement card

Examples



Before using the Media Trial Kit, please follow the instructions in the Quick Start Instruction Sheet to install the Craft ROBO driver, the Craft ROBO Controller, and the ROBO Master.
Also, make sure that the Craft ROBO is connected to your PC.

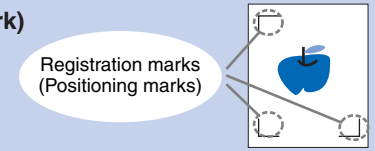
Menu 1 To Make a Name Label

1 Launch the ROBO Master program, and set the registration marks

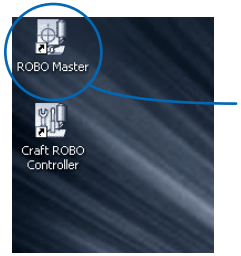
Before starting……

What is a registration mark?

A registration mark (a positioning mark) is a mark that is read by the Craft ROBO sensor to enable a printout to be cut precisely. Registration marks are printed together with the data you create.



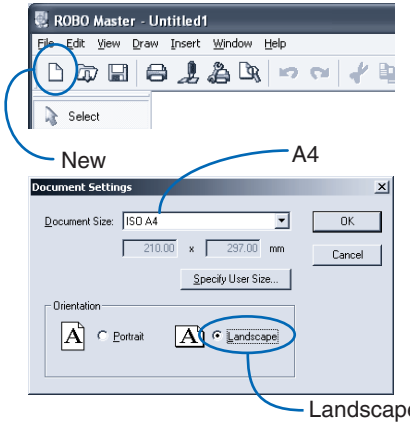
1 Launch ROBO Master



ROBO Master shortcut icon

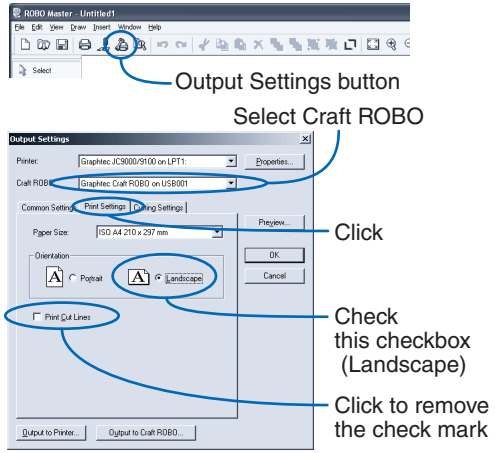
Click the desktop icon to launch [ROBO Master].

2 Set the Document Size



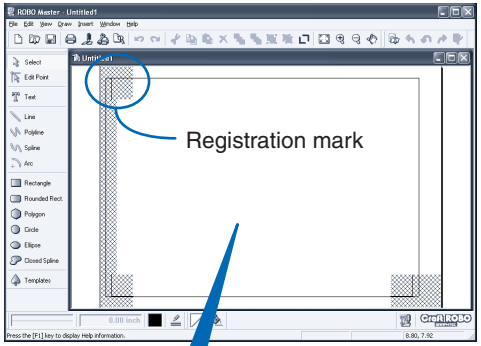
Click the New button to display the Document Settings window. Select “ISO A4” for Document Size and “Landscape” for Orientation, and then click the [OK] button.

3 Make the Print Settings



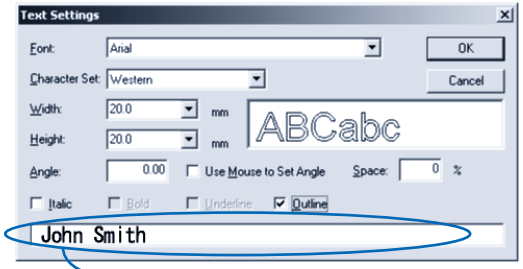
Click the Output Settings button to display the Output Settings window. Select the printer you use in the Printer box, and make sure that Graphtec Craft ROBO has been specified in the Craft ROBO box.

4 Check the registration marks

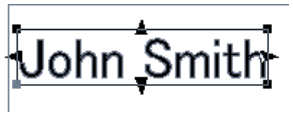


2 Design a Name Label

❶ Enter a name



Enter a name

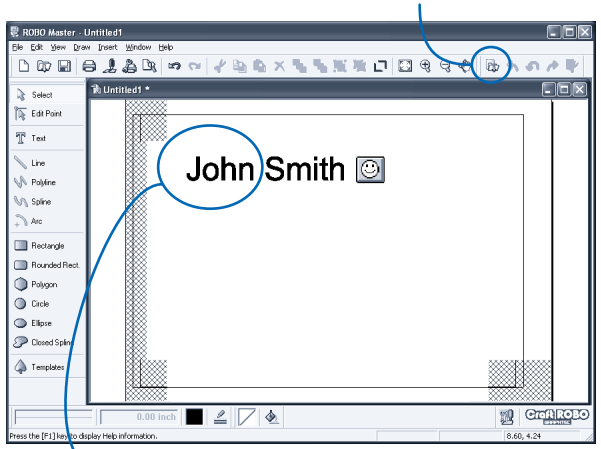


Left-click at the position where you wish the name to be placed

Click the Text tool button to display the Text Settings window. Set the font and text size and then enter a name in the character string entry box.
Click the [OK] button to return to the Create Drawing window, and left-click at the position where you wish the name to be placed.

❷ Place the image

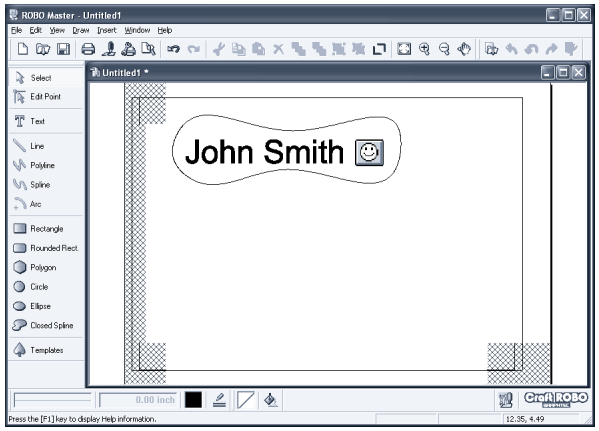
Image capture button



Capture a photo or an image and then position it

To capture an image that you have already, click the Image Capture button and select the image file. When you have returned to the Create Drawing window, left-click at the position where you wish the image to be placed.
Note: Do not place data in the shaded areas.

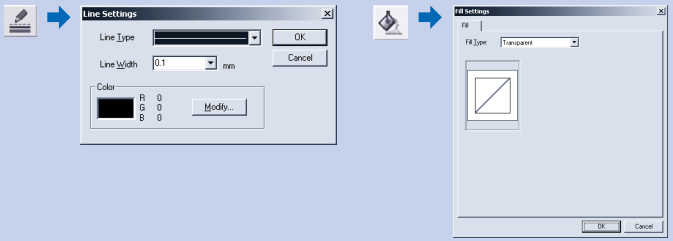
❸ Draw a cut line on the label



Here, you use the Closed Spline Tool to draw a cut line. To draw a smooth line, left-click all around the edges of the photo or text. Double-click the last point to complete the line.

HINT

To change text and lines, or the fill color used for objects, use the Line Type Settings or the Fill Type Settings , respectively.



HINT

To draw a shape using the Rectangle , Rounded Rectangle , Circle , or Ellipse tool, left-click at the top left and then the bottom right of the location where you wish to place the shape.

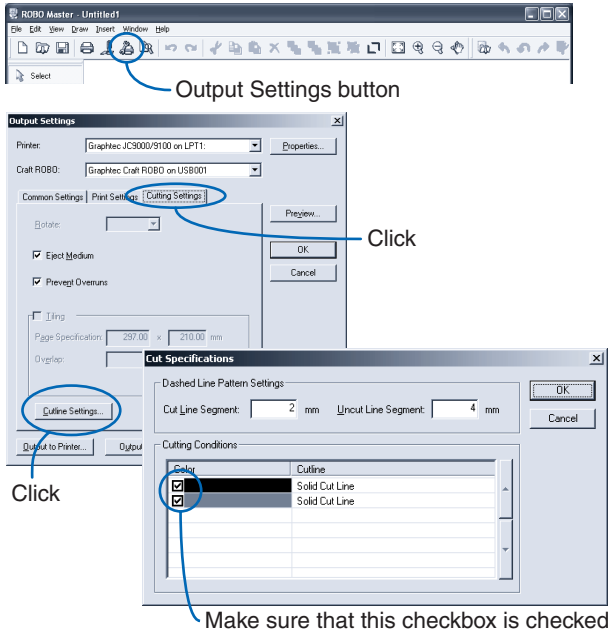
HINT

To draw a square, use the Rectangle or the Rounded Rectangle with the Shift key held down. Otherwise, use [View Grid*] and [Snap to Grid] in the [View] menu on the Menu bar to easily create a correctly-proportioned figure.

*Grid means the squares displayed in the Create Drawing window that you can use as guidelines to draw an accurate shape. You can use the [Snap to Grid] function to automatically align the vertices of a shape to the nearest position where the guide lines cross.

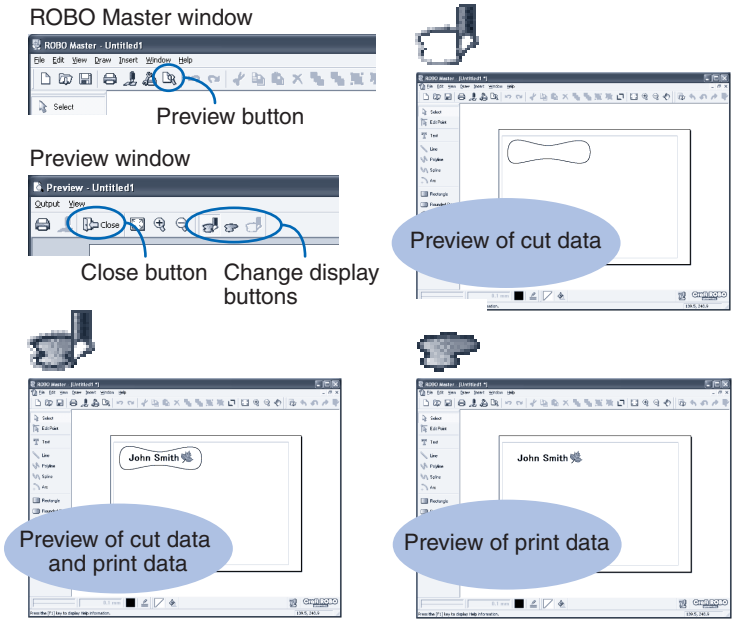
3 Specify the drawn line as a cut line, and then print out the design

1 Specify the cut line



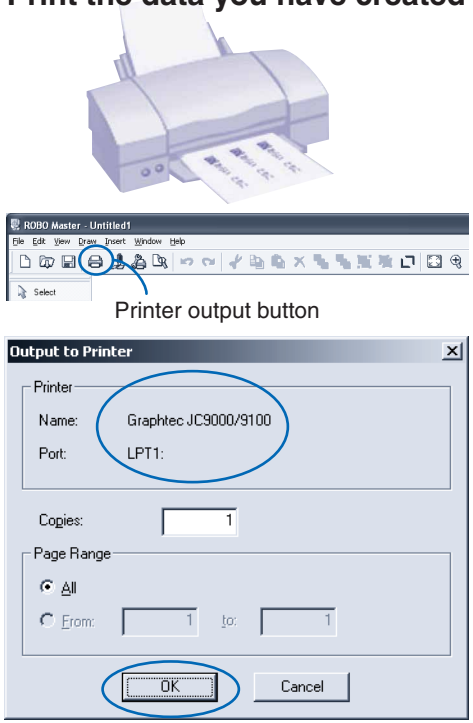
Click the Output Settings button to display the Output Settings window.
Click “Cutting Settings”, and then click the [Cutline Settings] button to display the [Cut Specifications] window. Make sure that the Color checkbox for the Cutline is checked. Click the [OK] button, and then click the [OK] button in the Output Settings window.

2 Check the Cut line data and the Print data



Click the Preview button to display the Preview window.
Use the Change Display buttons to display the print data and the cut data separately, or superimposed.
After checking the data displayed, click the Close button to return to your usual Create Drawing window.

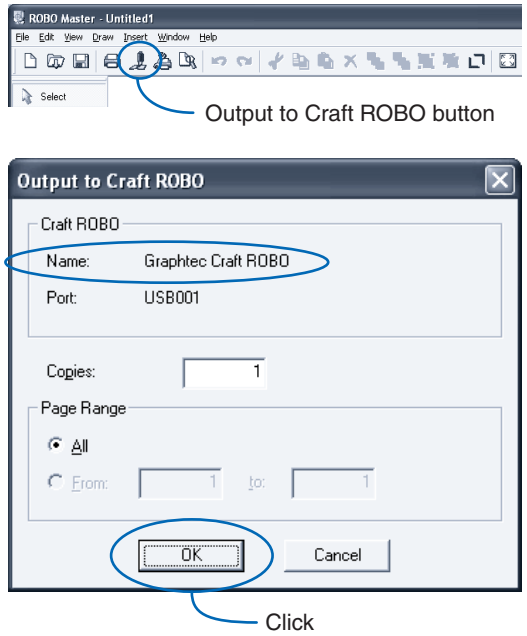
3 Print the data you have created



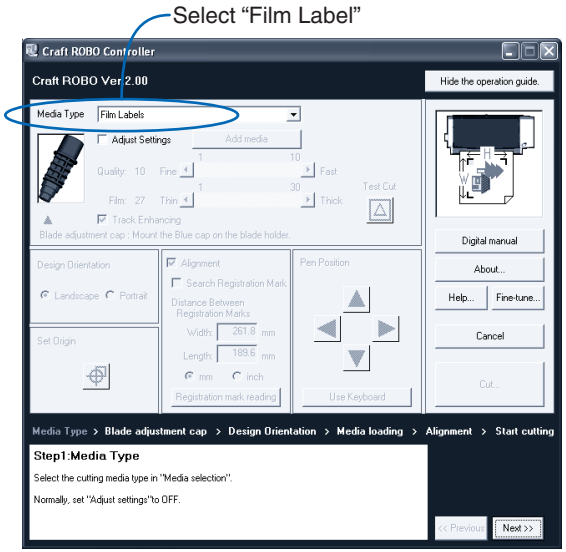
Load the film label sheet from your Media Trial Kit in your printer.
Click the Output to Printer button to display the Output to Printer window. Check that your printer is displayed in the printer box and then click the [OK] button to start printing.

4 Make preparations for cutting

❶ Specify the cutting conditions

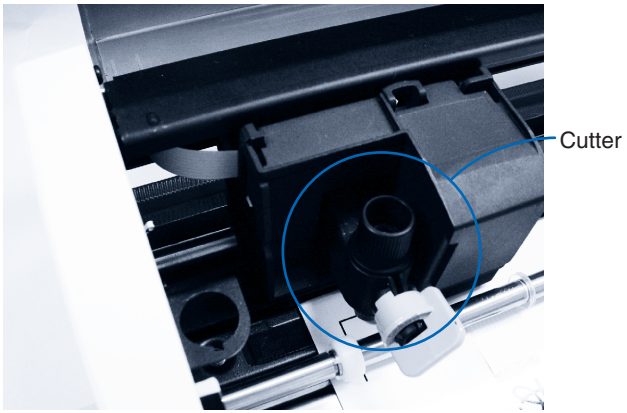


Click the Output to Craft ROBO button , confirm that the driver name reads Graphtec Craft ROBO, and then click the [OK] button to start the Craft ROBO Controller.



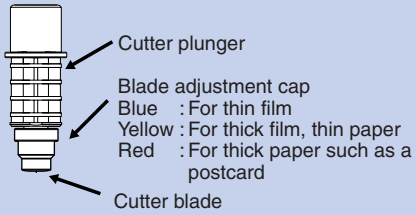
Select “Film Label” in the Media Type box. Click the [Next] button to proceed to the “Blade cap adjustment” step. Attach the blue cap displayed on the screen to the cutter plunger tip.

❷ Mount the cutter in the Craft ROBO



Make sure that the blade adjustment cap is [blue], and then mount the cutter in the Craft ROBO. (For details on how to replace the cap, please refer to the Quick Start Instruction Sheet).
Click the [Next] button to proceed to the “Design Orientation” step. Click the [Next] button again to proceed to the “Media loading” step.

HINT


Cutter plunger
Blade adjustment cap
Blue : For thin film
Yellow : For thick film, thin paper
Red : For thick paper such as a postcard
Cutter blade

HINT

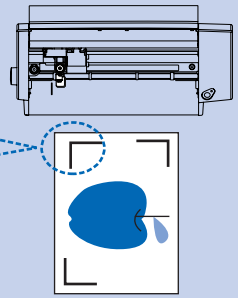
If you are using non-Graphtec media, perform test cutting to make sure that the media can be cut cleanly. If it is not cut cleanly, you will need to adjust the cutting conditions. Please refer to the Craft ROBO User's Manual (CD-ROM) for details on how to perform test cutting and how to adjust the cutting conditions.

3 Load the printed film label sheet in your Craft ROBO

Press the standby switch on your Craft ROBO and confirm that the LED lamp is lit. Align the printed film label sheet with the guide line, and then turn the feed knob to feed the sheetso that it is aligned with the top edge of the black cutting mat.
(For details on how to load media, please refer to the Quick Start Instruction Sheet).

HINT

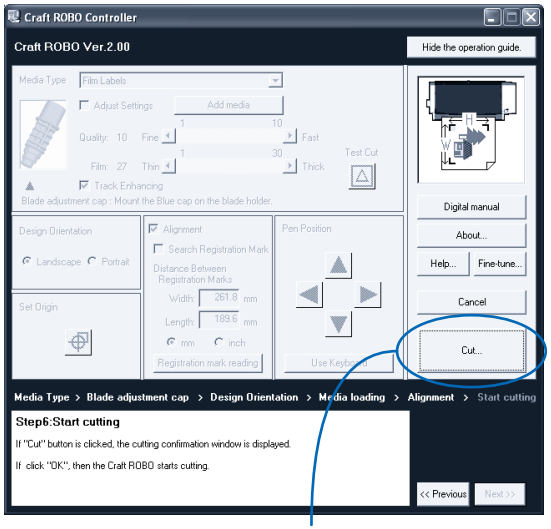
Load the printed film label sheet so that this registration mark will be inserted at the left of the Craft ROBO when you are facing the Craft ROBO.



4 Close the top cover

Close the top cover.
Click the [Next] button to proceed to the “Alignment” step. Click the [Next] button again to proceed to the “Start cutting” step.

5 Perform Auto Registration Mark Reading



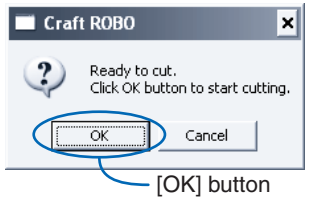
Click the “Cut...” button. The registration marks are read automatically. Do not touch the printed film label sheet during the reading operation, as this will affect the accuracy.

HINT

If a “Registration Mark Reading Failure” error message is displayed, please refer to the Craft ROBO User’s Manual (CD-ROM).

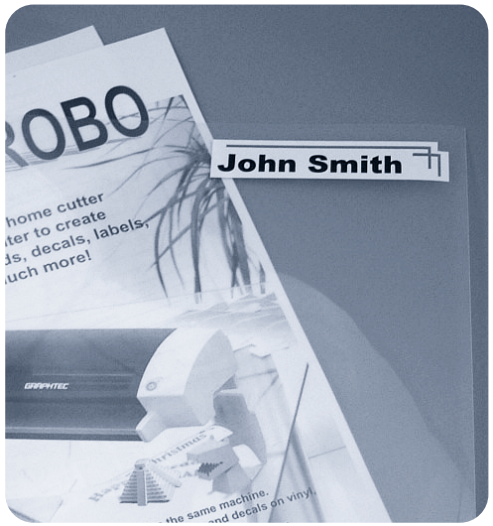
5 Perform Cutting

❶ Perform cutting



Click the [OK] button to start cutting.
Do not touch the Craft ROBO during the cutting operation.
When cutting has been completed, remove the sheet. Turn the feed knob to remove it.

❷ Finished!



The name label is complete. Peel it off the protective liner, and affix it wherever you like.

BONUS INFO

Label templates for video cassettes, MDs, etc., are provided in the following folder.

File location:
Program Files\ROBO Master\Samples

Template contents
- Video cassettes
- MDs
- Business cards
- Envelopes

The template file is usually located in the Samples folder in the ROBO Master folder. However, if you changed the installation destination when you installed ROBO Master, it will be installed in the Samples folder in the folder you selected.

Menu 2 To Cut a Vinyl Sticker

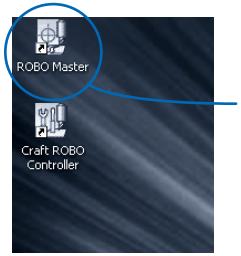
How do I use it?

What is a vinyl sticker?

A vinyl sticker is a self-adhesive, single-color sheet of film. Logos and text can be cut out of the sheet for use on car windows or as store signs, for example.
Here you can enjoy cutting out your own name or creating your own original logo, and then affixing it to a favorite item.

1 Launch ROBO Master

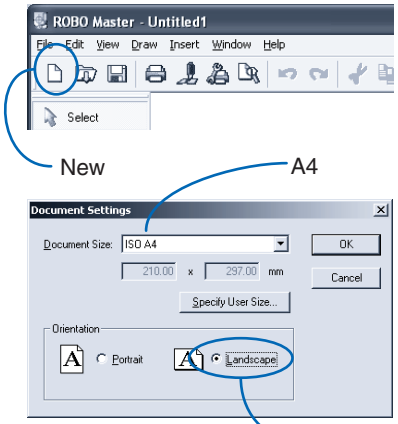
1 Launch ROBO Master



ROBO Master shortcut icon

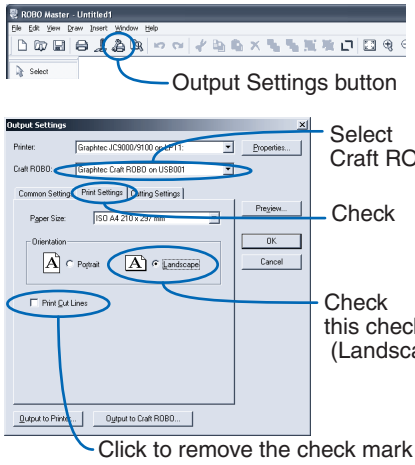
Click the desktop icon to launch [ROBO Master].

2 Set the Document Size



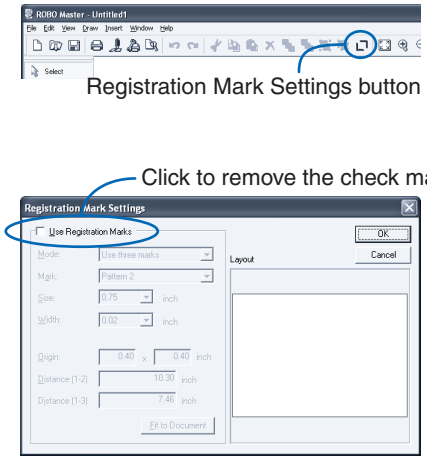
Click the New button to display the Document Settings window.
Select “ISO A4” for Document Size and “Landscape” for Orientation, and then click the [OK] button.

3 Make the Print Settings



Click the Output Settings button to display the Output Settings window.
Make sure that Graphtec Craft ROBO has been specified in the Craft ROBO box.
Click “Print Settings” and uncheck the “Print Cut Lines” checkbox.
Click the [OK] button to return to the Create Drawing window.

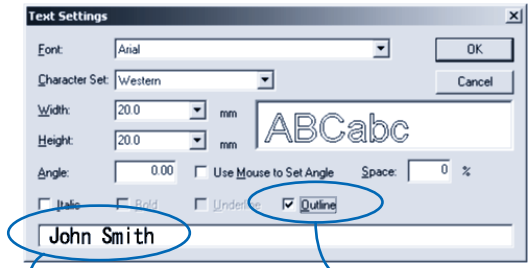
4 Change the Registration Mark Settings



Click the Registration Mark Settings button to display the Registration Mark Settings screen.
Click “Use Registration Marks” to uncheck the “Use Registration Marks” checkbox.
Click the [OK] button to return to the Create Drawing window.

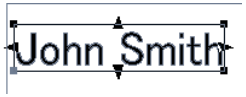
2 Design a Character String or an Object

1 Enter a character string



Enter a character string

Insert a check in the Outline checkbox



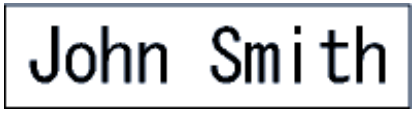
Place the character string

Click the Text tool button T to display the Text Settings window. Insert a check in the “Outline” checkbox, set the font and text size, and then enter a name in the character string entry box. Click the [OK] button to return to the Create Drawing window, and left-click at the position where you wish the name to be placed,

HINT

We recommend that you use a font such as a Gothic alphabet font and that you make your characters 20 mm or larger. This will make it easier to weed around the characters (remove unwanted vinyl) after cutting.

2 Add a frame



Enclose the characters with a frame by using one of these drawing tools [▭] [●] [⬭].

HINT

Adding a frame around the characters makes it easier to weed them after cutting, and also makes it easier to transfer the characters using an application sheet.

HINT

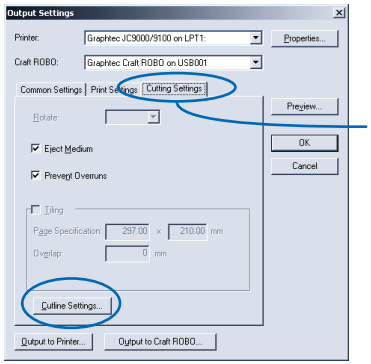
If you wish to cut the characters with a frame around them, you will need to create three rectangles. The white areas in the figure below represent the areas that have been weeded (unnecessary vinyl removed). Adding an exterior frame around the characters makes it easier to weed them after cutting, and also makes it easier to transfer the characters using an application sheet.

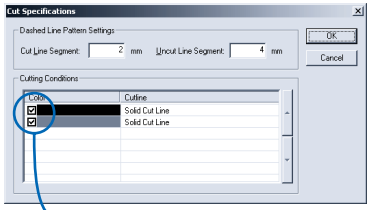
HINT

To draw a shape using the Rectangle ▭, Rounded Rectangle ▭, Circle ●, or Ellipse ⬭ tool, left-click at the top left and then the bottom right of the location where you wish to place the shape.
To draw a square, use the Rectangle ▭ or the Rounded Rectangle ▭ with the Shift key held down.

3 Make preparations for cutting

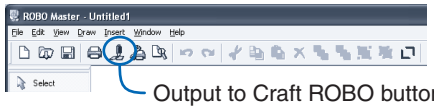
1 Specify the cut line

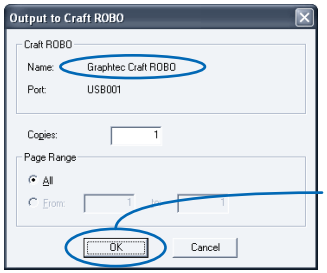




Click the Output Settings button to display the Output Settings window. Click “Cutting Settings”, and then click the [Cutline Settings] button to display the [Cut Specifications] window. Make sure that the Color checkbox for the Cutline is checked. Click the [OK] button, and then click the [OK] button in the Output Settings window.

2 Specify the cutting conditions

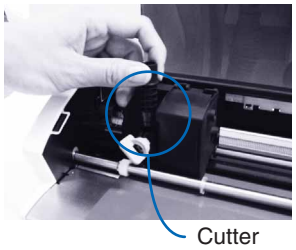




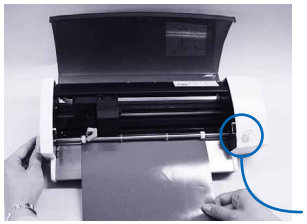
Click the Output to Craft ROBO button , confirm that the driver name reads Graphtec Craft ROBO, and then click the [OK] button to start the Craft ROBO Controller.

Select “Vinyl Sticker” in the Media Type box.
Click the [Next] button to proceed to the “Blade cap adjustment” step. Attach the blue cap displayed on the screen to the cutter plunger tip.

3 Load the vinyl sticker in your Craft ROBO and mount the cutter



Make sure that the blade adjustment cap is [blue], and then mount the cutter in the Craft ROBO.
(For details on how to replace the cap, please refer to the Quick Start Instruction Sheet).
Click the [Next] button to proceed to the “Design Orientation” step. Click the [Next] button again to proceed to the “Media loading” step.



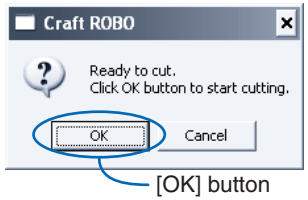
Press the standby switch on your Craft ROBO and confirm that the LED lamp is lit. Align the vinyl sticker with the guide line, and then turn the feed knob to feed it so that it is aligned with the top edge of the black cutting mat.
(For details on how to load media, please refer to the Quick Start Instruction Sheet).

Close the top cover.
Click the [Next] button to proceed to the “Alignment” step.
Click the [Next] button again to proceed to the “Start cutting” step.

Click the [Start Cutting] button.

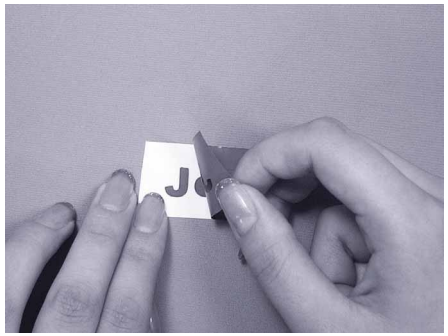
4 Perform Cutting and Affix the Name

❶ Perform cutting

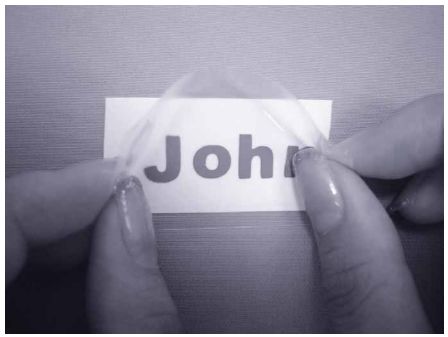


Click the [OK] button to start cutting.
Do not touch the Craft ROBO during the cutting operation.
When cutting has been completed, remove the vinyl sticker. Turn the feed knob to remove it.

❷ Weed the name and affix the application sheet

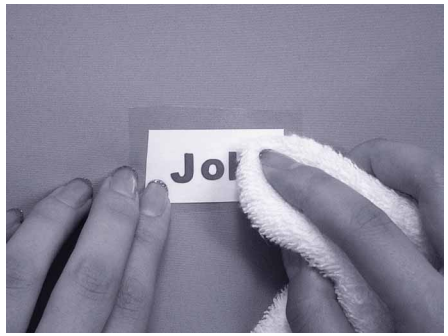


Use tweezers or a similar tool with a fine point to weed the name (remove the unwanted areas).

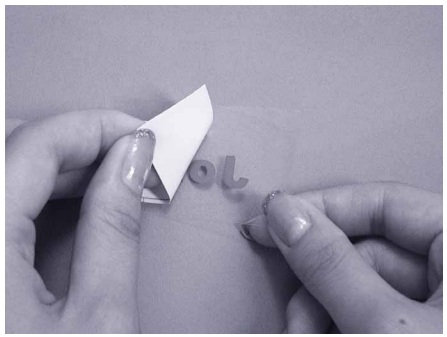


Affix the application sheet on top of the design.

❸ Transfer the characters to the application sheet



After affixing the application sheet, rub it firmly with a cloth or something similar to transfer the cut characters onto the sheet.



Peel off the protective liner carefully so that the cut characters remain affixed to the application sheet.

❹ Affix the name to the desired item

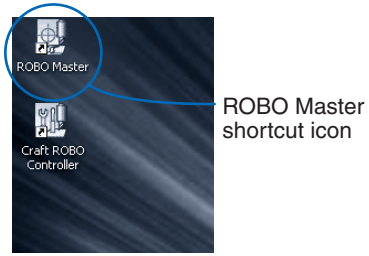
Place the application sheet with the transferred characters on the surface where you want to affix the name. Rub it firmly with a cloth or similar to make sure that the cut characters are affixed to the surface.

Carefully peel off the application sheet to complete the process.

Menu 3 To Make a Pop-up Greeting Card

1 Launch ROBO Master

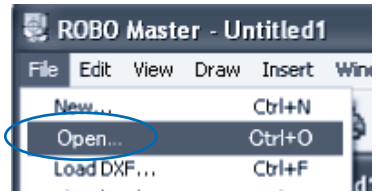
1 Launch ROBO Master

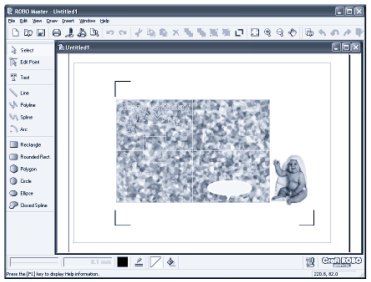


ROBO Master shortcut icon

Click the desktop icon to launch [ROBO Master].

2 Load the Pop-up Card template



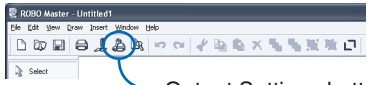


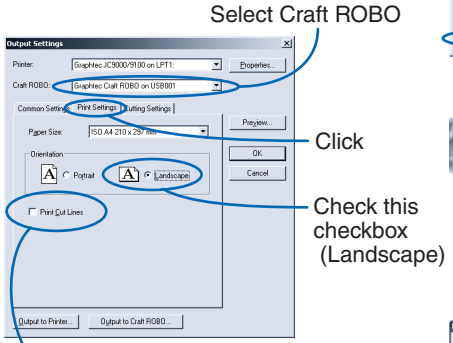
Click [File]→ [Open] in that order and select [Baby1 Pop-up Card for Practice.GSD]. The file is located in the Samples folder in the folder you selected when you installed ROBO Master. It is usually located in the following folder:

Program Files\ROBO Master\Samples

Note: The cut line for the pop-up card has already been specified, and so there is no need to make any settings or to change them.

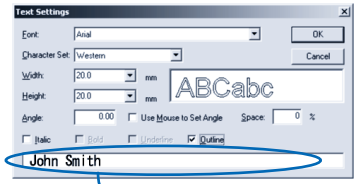
3 Make the Print Settings





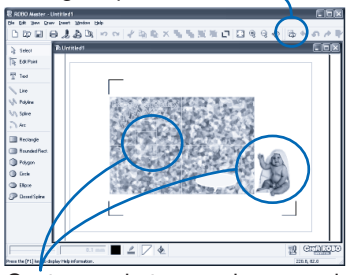
Click the Output Settings button to display the Output Settings window.
Select the printer you use in the Printer box, and make sure that Graphtec Craft ROBO has been specified in the Craft ROBO box. Click “Print Settings” and uncheck the “Print Cut Lines” checkbox. Click the [OK] button to return to the Create Drawing window.

4 Create a layout using text and images



Click with the mouse at the position where you wish the name to be placed

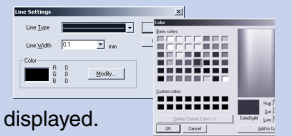
Input a character string here and then click the [OK] button. Click the Text tool button T to display the Text Settings window. Set the font and text size and then enter a name in the character string entry box. Click the [OK] button to return to the Create Drawing window, and left-click at the position where you wish the name to be placed.



To capture an image that you have already, click the “Image Capture” button and select the image file.When you have returned to the Create Drawing window, left-click at the position where you wish the image to be placed. You can affix any photo that you have to the pop-up. Or, you can cut an original photo or illustration on the Craft ROBO, following the instructions for making a name label on Page 9, and then affix it to the pop-up. Sample images are available in the CD-ROM supplied with the Craft ROBO.

HINT

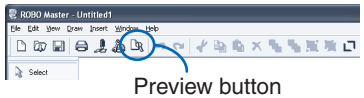
To change the color of the characters, click the Line Type button and then click the [Change] button in the window displayed.



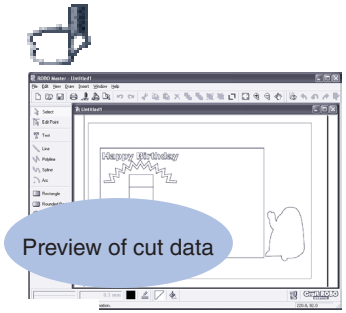
2 Print the data you have created and load the sheet in the Craft ROBO

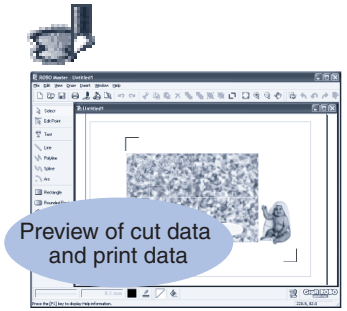
❶ Check the Cut line and Print data

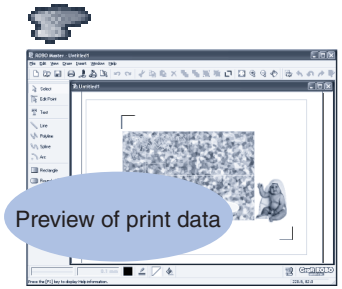
ROBO Master window



Preview window

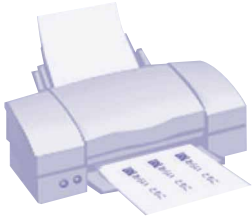


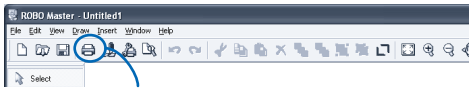


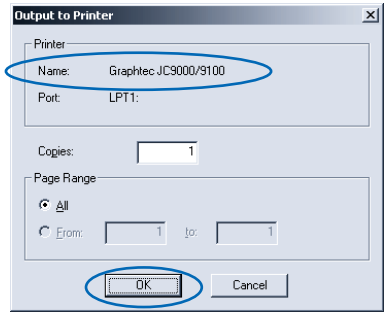


Click the Preview buttons to display the Preview window.
Use the Change Display button to display the print data and the cut data separately, or superimposed.
After checking the data displayed, click the Close button to return to your usual Create Drawing window.

❷ Print the data you have created

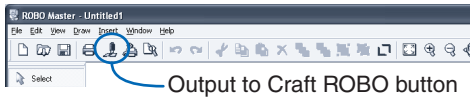


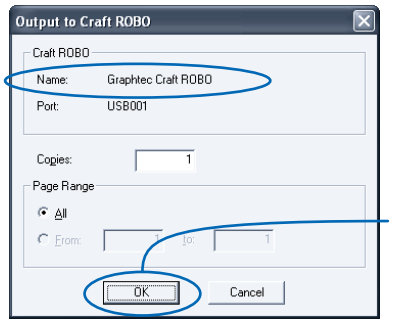




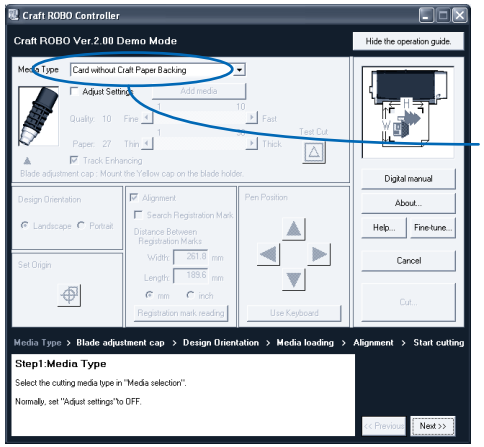
Load the [Card with Craft Paper Backing] sheet from your Media Trial Kit in your printer.
Click the Output to Printer button to display the Output to Printer window. Check that your printer is displayed in the printer box and then click the [OK] button to start printing.

❸ Specify the cutting conditions





Click the Output to Craft ROBO button , confirm that the driver name reads Graphtec Craft ROBO, and then click the [OK] button to start the Craft ROBO Controller.


Craft ROBO Controller
Craft ROBO Ver.2.00 Demo Mode
Hide the operation guide.
Media Type
Card without Craft Paper Backing
Select “Card with Craft Paper Backing”
Media Type > Blade adjustment cap > Design Orientation > Media loading > Alignment > Start cutting
Step1:Media Type
Select the cutting media type in "Media selection".
Normally, set "Adjust settings"to OFF.
Next >>

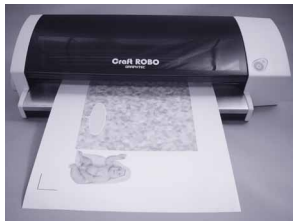
Select “Card with Craft Paper Backing” in the Media Type box.Click the [Next] button to proceed to the “Blade cap adjustment” step. Attach the yellow cap displayed on the screen to the cutter plunger tip.

3 Make preparations for cutting

1 Load the printed sheet in your Craft ROBO and mount the cutter

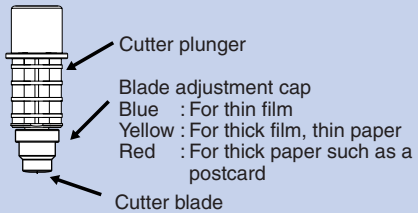
Make sure that the blade adjustment cap is [yellow], and then mount the cutter in the Craft ROBO.
(For details on how to replace the cap, please refer to the Quick Start Instruction Sheet).
Click the [Next] button to proceed to the “Design Orientation” step. Click the [Next] button again to proceed to the “Media loading” step.

Press the standby switch on your Craft ROBO and confirm that the LED lamp is lit.
Align the printed sheet with the guide line, and then turn the feed knob to feed it so that it is aligned with the top edge of the black cutting mat.
(For details on how to load media, please refer to the Quick Start Instruction Sheet).



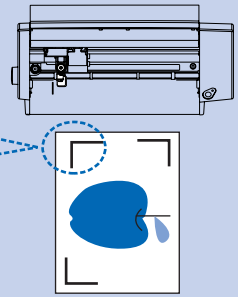
Close the top cover.
Click the [Next] button to proceed to the “Alignment” step. Click the [Next] button again to proceed to the “Start cutting” step.

HINT

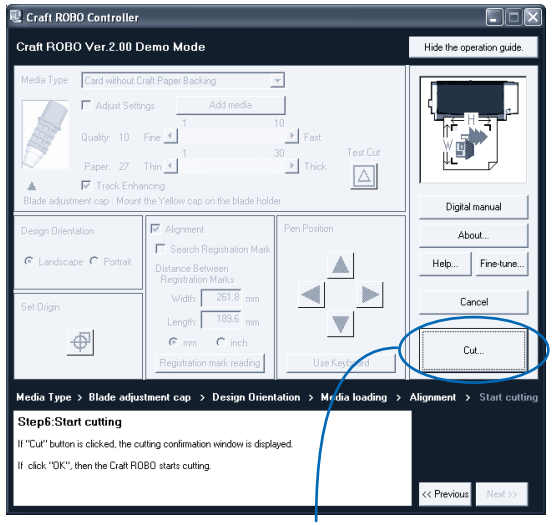

Cutter plunger
Blade adjustment cap
Blue : For thin film
Yellow : For thick film, thin paper
Red : For thick paper such as a postcard
Cutter blade

HINT

Load the printed sheet so that this registration mark will be inserted at the left of the Craft ROBO when you are facing the Craft ROBO.



2 Perform Auto Registration Mark Reading


Craft ROBO Controller
Craft ROBO Ver.2.00 Demo Mode
Hide the operation guide.
Digital manual
About...
Help...
Fine-tune...
Cancel
Cut...
Media Type > Blade adjustment cap > Design Orientation > Media loading > Alignment > Start cutting
Step6:Start cutting
If "Cut" button is clicked, the cutting confirmation window is displayed.
If click "OK", then the Craft ROBO starts cutting.
<< Previous
Next >>

Click

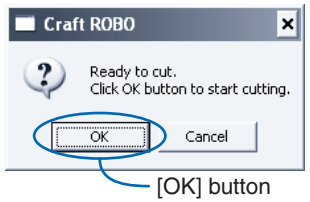
Click the [Cut...] button. The registration marks are read automatically. Do not touch the printed sheet during the reading operation, as this will affect the accuracy.

HINT

If a “Registration Mark Reading Failure” error message is displayed, please refer to the Craft ROBO User’s Manual (CD-ROM).

4 Perform Cutting

❶ Perform cutting



Click the [OK] button to start cutting.
Do not touch the Craft ROBO during the cutting operation.
When cutting has been completed, remove the sheet. Turn the feed knob to remove it.

❷ Finished!

The pop-up card is complete when you assemble it.

Media Handling Instructions

Printing Media on a Printer

The media types labeled ①, ②, and ⑤ can be printed on an inkjet printer.
Please read the following sections “Printer Driver Settings”, “Printing Procedure” and “Printing Precautions” before performing printing.

Media Types Contained in the Media Trial Kit

Number	Media Name	Size	Overall Thickness (mm)	Printable	Cutting Conditions			Media Front/Reverse	
					Blade adjustment cap	Standoff ring	Carrier sheet	Front side	Reverse side
①	Card with Craft Paper Backing	A4	0.33	Yes	Yellow	Not required	Not required	White paper (Printed with "Print side")	White paper
②	Film Labels	A4	0.27	Yes	Blue	Not required	Not required	White film (see Fig. 1) (When viewed from the front, the top right corner is cut.)	White protective liner
③	Vinyl Sticker	A4	0.275	No	Blue	Not required	Not required	Blue film	Protective liner printed with the name “Viewcal”
④	Application Sheet	A4						Clear film	White protective liner
⑤	Magnetic Sheet	A4	0.17	Yes	Yellow	Required	Required	White	Black
⑥	Carrier Sheet	322 x 210 mm						Adhesive protective liner (yellow)	Resin

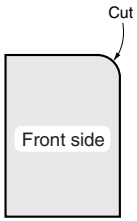


Fig.1 Front side view

Note 1: Inkjet media and the carrier sheet ⑥ may curl when used in environments with high temperature or humidity. If the media curls, straighten it out.
Note 2: The Card with Craft Paper Backing is a thick media type, and there may be some printer models that cannot print on it.

1 Printer Driver Settings

Depending on the type of media used, you may need to make certain printer driver settings.
Please refer to the following table and make any settings required for the type of media you are using before performing printing.
- The print modes and media names vary according to the printer used. Please check them in the User’s Manual for your printer.
- The settings in the following table were determined on the basis that genuine inks were used.

Printer Driver Settings

Number	Manufacturer	EPSON		CANON *1		HP *1	
	Model	PM/MC/MJ/PX/CL/CC Series		BJ/PIXUS Series		deskjet/psc/pc/photosmart Series	
	Recommended Print Setting	Media Setting	Print Quality	Media Setting	Print Quality	Media Setting	Print Quality
① *2	Card with Craft Paper Backing	Superfine Paper	High	High Resolution Paper	High	HP Premium Inkjet Paper Premium Paper	Best High Resolution
② *2	Film Labels	(PM, PM/MC) Photo Paper Photo Glossy Paper	Recommended setting	Glossy Film	High	Premium Plus Photo Paper Premium Photo Paper	Best High Resolution
③ *3	Magnetic Sheet	Superfine Paper	High	High Resolution Paper	High	HP Premium Inkjet Paper Premium Paper	Best High Resolution

*1 When using Canon or HP printers, we recommend that you use their photo inks (6-color printing) to enable higher quality resolution.
*2 Pigment inks cannot be used.
*3 Water-based pigment inks can be used, but oil-based pigment inks cannot be used.

Continued on page 24

Continued from page 23

2 Printing Procedure

(1) Read the User's Manual for your printer before performing printing.
(2) When loading media in the printer, check that the print side (see Fig. 1) faces upwards and load only the media (together with the protective liner in the case of media types ① or ②).
(3) Please load the media manually. Refer to the User's Manual for your printer for media loading and printing instructions.

3 Printing Precautions

(1) All the media in the Media Trial Kit are for use with inkjet printers only. Do not use them with any other types of printer.
(2) Do not touch the printed surface until it is completely dry. Moreover, do not stack printed sheets.
Note: Wherever possible, do not touch the printed surface even after it is dry.

Cutting Media on the Craft ROBO

1 Cutting Procedure

(1) Read the Craft ROBO User's Manual to confirm how to use the Craft ROBO and perform cutting before performing any actual cutting.
(2) When loading media in the Craft ROBO, check that the print side (see Fig. 1) faces upwards and load the media (together with the protective liner in the case of media types ① , ② or ③, or affixed to the carrier sheet ⑥ in the case of media type ⑤).
Please refer to the following "Points to Note" and to the Craft ROBO User's Manual for details on how to use the carrier sheet ⑥ when cutting media type ⑤.
Points to Note:
• After cutting, remove the media slowly and carefully from the carrier sheet ⑥.
• The adhesive quality of the carrier sheet ⑥ will deteriorate after repeated affixing and cutting operations. If this happens, replace it with a new carrier sheet.
(3) The blade length setting depends on the type of media used. Please refer to the "Media Types Contained in the Media Trial Kit" table and check the color of the blade adjustment cap and whether or not the standoff ring is required.

2 Cutting Precautions

(1) A sharp blade is used in the cutter plunger. Take care not to cut yourself on the blade.
(2) Make sure that the ink is completely dry before cutting media that has been printed.

Media Handling Precautions

(1) Always hold media that show fingerprints or scratches easily by the edges. Ink may not adhere correctly in places where there are fingerprints.
(2) Take care not to get the printed media wet. The ink may smear or cause stains.
(3) The media types ② and ③ use a strong adhesive. Do not affix your labels, decals, etc. to any objects where residual adhesive left when they are removed will cause a problem.
(4) Before affixing your labels, decals, etc., make sure that the target surface has been wiped clean of any water, oil, dirt or dust.
(5) Do not apply media types ② and ③ to uneven surfaces or to matte surfaces. Strong adhesive has been used, but they may still lift off.
(6) Media easily absorbs moisture, so do not remove any sheets from the package until just before use.
(7) After the package has been opened, use the media as quickly as possible. Always store the sheets in the package they came in.
(8) Avoid storing media in high-temperature, high-humidity locations, or in locations exposed to direct sunlight.

Usage Precautions for Media Used for Cutting

Graphtec only guarantees the cutting results for media supplied by Graphtec and cut under suitable conditions. Please read all the following precautions carefully if you plan to use non-Graphtec media.

Media Type Precautions

Even if the media is thinner than the extended blade length, its thickness, strength and the hardness of the fibers may cause it not to be cut through completely. Please refer to “Media is not cut properly” on page 27 of this guide and to the Craft ROBO User’s Manual for the adjustment procedure. If the media still cannot be cut properly, use Graphtec media.

Precautions on Using Thin Media, and Media without a Protective Liner

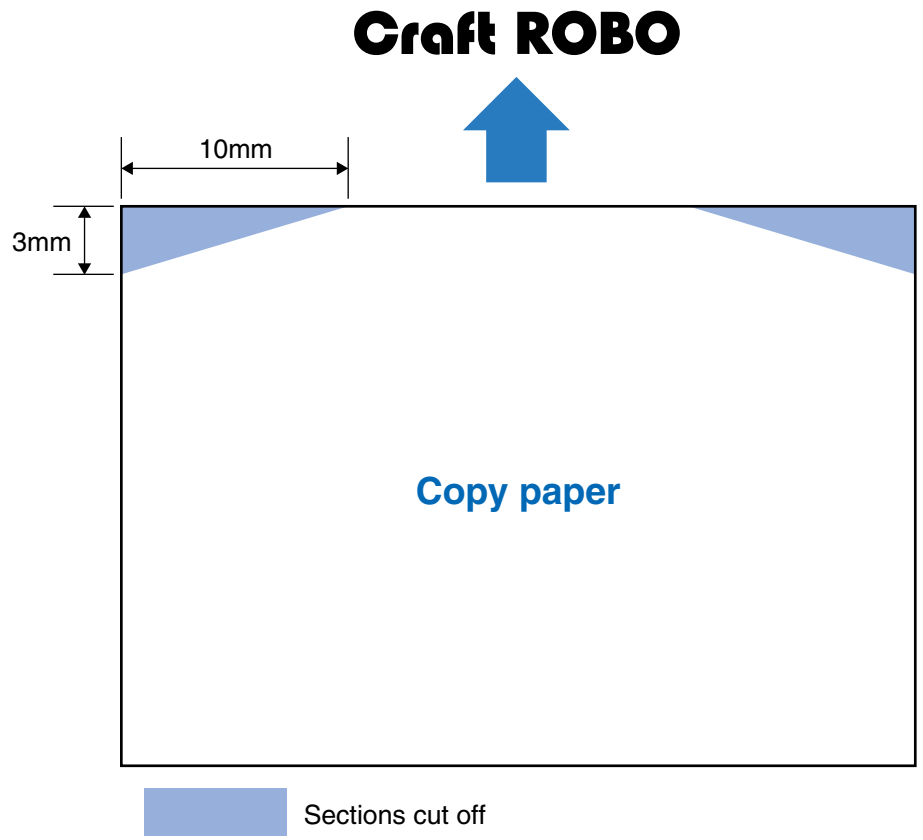
When using thin media or media without a protective liner, the media is cut right through and the cutting mat and blade may be damaged. Always affix such media to the carrier sheet before cutting it.

Cutter Blade Precautions

The cutter blade has a certain life expectancy. If the cutting results deteriorate over time, please purchase a new blade.

Precautions on Using Copy Paper

If copy paper is used as is, the paper will get caught up in the Craft ROBO and cause malfunctions. Avoid using copy paper wherever possible. If you have to use it, cut off the top corners as shown in the figure on the right. Please note, however, that the use of copy paper may void the warranty.



The dimensions of the cut-off sections are for reference only. Please try different dimensions yourself.

When You Have Problems...

The following explains the corrective actions that need to be taken when you have problems using Craft ROBO. Check the status of the Craft ROBO before concluding that it maybe faulty. For symptoms not listed in this section, please refer to the relevant section in the User's Manual on the CD-ROM. If the problem cannot be corrected by taking the actions described here, please visit the Graphtec web site for further information on the Craft ROBO.

Craft ROBO does not work

Symptom: The LED lamp does not light up even when the standby switch is pressed.	
Cause	**Solution**
The power cord is not firmly inserted into the AC adapter or power outlet.	Insert the power cord correctly. Reference: See the Craft ROBO User's Manual (CD-ROM), "Connecting the Power Supply and Powering On".
The AC adapter is not connected to the AC adapter jack. The AC adapter is coming loose.	Insert the AC adapter correctly. Reference: See the Craft ROBO User's Manual (CD-ROM), "Connecting the Power Supply and Powering On".
Symptom: Media cannot be loaded correctly.	
Cause	**Solution**
Media smaller than 210 mm in width has been loaded.	To use media smaller than 210 mm in width, affix it to the carrier sheet. Reference: See the Craft ROBO User's Manual (CD-ROM), "Setting Media into Position". Caution: When using the carrier sheet, be aware that media longer than the carrier sheet cannot be cut.
Media larger than 260 mm in width has been loaded.	Large media exceeding 260 mm in width cannot be loaded. Cut the media to a smaller width or replace it with smaller media. (Even when media 260 mm in width has been loaded, the standard cutting width is 190 mm (maximum of 200 mm), as in the case of media that is 210 mm in width).
The push rollers are dirty.	Wipe off the push rollers using a dry cloth.

Errors are displayed on the computer

Symptom: The error message "Read/Write error to USB*** or GTCUSB" is displayed on the computer.	
Cause	**Solution**
The Craft ROBO is not ready to run.	Press the standby switch to turn the LED lamp on. If the LED lamp does not light even when media has been loaded, Craft ROBO will not start cutting.
The USB cable is not properly connected.	Insert the USB cable correctly. Reference: See the Craft ROBO User's Manual (CD-ROM), "Connecting the Craft ROBO to a Computer". • If a repeater or USB hub is being used, remove it and connect the Craft ROBO directly to the computer. If the media is then cut normally, contact the manufacturer of your repeater or USB hub. • It is possible that the cable is faulty. Replace it with another cable to check.
The selected port for printing is not the USB port.	Check to confirm that the selected port for printing is "USB***" or "GTCUSB". If the selected port is not "USB***" or "GTCUSB", change the port. If no ports for printing are available, reinstall the driver. • When using Windows 98/Me 1. From the "Start" menu, click "Setup" and then "Printers". 2. In the displayed list, right-click on Graphtec Craft ROBO and select "Properties" from the menu. 3. Click the "Advanced" tab and confirm that "GTCUSB" is selected for "Port to print". • When using Windows 2000/XP 1. [Windows 2000] From the "Start" menu, click "Setup" and then "Printers". [Windows XP] From the "Start" menu, click "Control Panel", "Printers and Other Hardware", and "Printers and Faxes", in that order. 2. In the displayed list, right-click on Graphtec Craft ROBO and select Properties from the menu. 3. Select the "Port" tab, and confirm that "USB***" is selected. Reference: See the Craft ROBO User's Manual (CD-ROM), "Installing the Craft ROBO Controller".
Symptom: USB errors are displayed on the computer during output.	
Cause	**Solution**
The cutting data exceeds the memory capacity.	The Craft ROBO contains memory in which data can be stored. If the amount of data exceeds the memory size, an error may be displayed on the computer. Media will still be cut normally, however.

Media is not cut properly

Symptom: Media cannot be cut cleanly

Cause	Solution
The cutter or ball-point pen is not correctly mounted in the plunger holder.	Mount the cutter or ball-point pen correctly in the plunger holder. Reference: See the Craft ROBO User's Manual (CD-ROM), "Fine-tuning and Setting Up the Cutter Pen".
The ball-point pen is not correctly mounted in the ball -point pen plunger.	Confirm that the tip of the ball-point pen protrudes 3 mm to 3.5 mm from the ball-point pen plunger. Reference: See the Craft ROBO User's Manual (CD-ROM), "Fine-tuning and Setting Up the Cutter Pen".
The blade of the cutter plunger is worn or chipped.	Replace the cutter blade.
The inside of the cutter plunger is dirty.	Remove the blade adjustment cap and clean it. If the problem still cannot be corrected, replace the blade adjustment cap. Reference: See the Craft ROBO User's Manual (CD-ROM), "Fine-tuning and Setting Up the Cutter Pen".
The length of the blade protruding from the cutter plunger is inappropriate.	Select the blade adjustment cap best suited for the media. Adjust the protruding length of the cutter blade according to the selected blade adjustment cap (0.1 mm for "blue", 0.2 mm for "yellow", and 0.3 mm for "red"). Perform adjustment so that slight traces are left on the protective liner or the carrier sheet.
The standoff ring was not used together with the carrier sheet when cutting was performed.	Attach the standoff ring before performing cutting. Attaching the ring has the effect of increasing the cutting force.
The cutting conditions have not been adjusted correctly.	Make sure that the media selected for "Media Type" in the Craft ROBO Controller is the same as that actually used. In addition, insert a check in the "Adjust Settings" check box and adjust the cutting conditions. Reference: See the Craft ROBO User's Manual (CD-ROM), "Setting Various Parameters".
The cutting mat is damaged.	The media cannot be cut easily. If the symptom occurs again at the same location, purchase a replacement cutting mat.

Symptom: The protective liner or the carrier sheet is cut along with the media.

Cause	Solution
The cutting blade protrudes excessively from the cutter plunger.	Replace the blade adjustment cap with one that enables a shorter blade-protruding length Reference: See "Media cannot be cut cleanly" above.
The cutting conditions are not adjusted properly.	Make sure that the media selected for "Media Type" in the Craft ROBO controller is the same as that actually used. In addition, insert a check in the "Adjust Settings" checkbox followed by "Thin" for the cutting-condition adjustment. Reference: See the Craft ROBO User's Manual (CD-ROM), "Setting Various Parameters".

Symptom: Thick media cannot be cut.

Cause	Solution
The blade edge is not protruding from the cutter plunger.	Replace the blade adjustment cap with one that enables a longer blade-protruding length. Reference: See "Media cannot be cut cleanly" above.
The cutting conditions are not adjusted properly.	Make sure that the media selected for "Media Type" in the Craft ROBO controller is the same as that actually used. In addition, insert a check in the "Adjust Settings" checkbox followed by "Thick" for the cutting-condition adjustment. Reference: See the Craft ROBO User's Manual (CD-ROM), "Setting Various Parameters".

Symptom: Characters or lines are deformed when a pen is used for drawing.

Cause	Solution
"Pen" is not selected for "Media Type".	Select "Pen" for "Media Type" in the Craft ROBO Controller. Reference: See the Craft ROBO User's Manual (CD-ROM), "Setting Various Parameters".

Symptom: Some areas of the media are not cut. The media is not held in place.

Cause	Solution
The media size for the cutting data is larger than the size of the media loaded in the Craft ROBO.	Make sure that the media size for the cutting data is the same as the size of the media loaded in the Craft ROBO.

Symptom: The media jams.
The error message "Registration Mark Reading Failure" is displayed.

Cause	Solution
The media (thin paper) is curled and raised off the surface of the working table.	Align the media with the top edge of the cutting mat. The edges of the media will be held in place Note: Please note that the cutting area will be reduced by approximately 5 mm.

Symptom: Some parts of the media remain uncut (not completely cut through).

Cause

Even if the cutting conditions are adjusted correctly and the appropriate blade adjustment cap is selected, media may not be completely cut, depending on the type of media (thickness, strength, and fiber). This is not a fault of the Craft ROBO. (For details on cutting-condition adjustment, please refer to "Media cannot be cut cleanly" above).

Problems related to using registration marks, and other problems

Symptom: The cut positions are not aligned when registration marks are used.

Cause	Solution
A printout from a laser printer was used.	Printouts from a laser printer may be distorted by heat before being output, so that the cut position cannot be adjusted correctly using registration marks. We recommend using printouts from inkjet printers.
The positions read by the registration mark sensors do not match.	The Craft ROBO uses optical sensors to read the registration marks and thereby determine the cutting position. If the cutting position is not aligned, registration mark sensor correction is required. Therefore, perform registration mark correction. Reference: See the Craft ROBO User's Manual (CD-ROM), "Setting Various Parameters".

Symptom: The error message "Registration Mark Reading Failure" is displayed when registration marks are used.

Cause

The Craft ROBO uses optical sensors to read the registration marks and thereby determine the cutting position. The error message may be displayed for the following reasons:

	Solution
• Glossy or laminated media is used.	Registration marks may not be read if a printout that easily reflects light is used. Replace the media.
• There are lights or other bright objects located near the Craft ROBO.	Registration marks may not be read if a light source exists near the Craft ROBO. If an error message is displayed, change the installation location.
• The loaded media is curled.	Registration marks may not be read if the media is curled and raised above the surface of the working table. Straighten out the curl and load the media again. If the problem still cannot be corrected, replace the media.
• Colored media is used.	Registration marks may not be read if media in colors other than white is used. Be sure to use white media.
• Registration marks are printed in a color other than black.	Registration marks may not be read unless they are printed in black. Make sure that the registration marks are printed in black.

Question: Can applications other than those supplied with the Craft ROBO be used?

Answer

Correct operation of the Craft ROBO has been confirmed for the recommended applications. Operation with other applications has not been confirmed.

GRAPHTEC

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